

Natural Gas-Fired Sources: Kilns, Calciners, Dryers, Furnaces

July 2003 NOx RBLC DETERMINATIONS

RBLCID	FACILITY	FUEL	PROCESS	FUEL	THROUGHPUT	POL	CTRL CODE
AR-0028	ARKANSAS LIME COMPANY	COKE/COAL MID KILN, LIME		COAL/COKE	625 T/D LIME	NOX	P
CA-0638	NATIONAL CEMENT COMPANY (KILN MODERNIZATI ON)		KILN WITH PRE- CALCINER FOR CEMENT MANUFACTURI NG	COAL/COKE	340 MMBTU/HR	NOX	P
CO-0043	RIO GRANDE PORTLAND CEMENT CORP.	PRIMARILY COA	PREHEATER/PR ECALCINER, KILN	PRIMARILY COAL, NATURAL GAS USED OCCASIONALL Y.	950000 T/YR	NOX	P
CO-0047	HOLNAM, FLORENCE	COAL, TIRE DERI	KILN/PREHEAT ER/BYPASS & CLINKER COOLER EXHAUST	COAL		NOX	P
CO-0048	HOLNAM, LAPORTE CO.	COAL, NATURAL	CALCINER/ KILN	COAL	584000 T/YR	NOX	P
FL-0224	FLORIDA ROCK INDUSTRIES, INC.		KILN, PORTLAND CEMENT	COAL	2300 T/D	NOX	P
IA-0052	LAFARGE CORPORATION		CEMENT MANUFACTURI NG, PREHEATER/PR ECALCINER	COAL	3488 T/D	NOX	P
MD-0027	LEHIGH PORTLAND CEMENT COMPANY	COAL	KILN CEMENT MANUFACTURI NG, PREHEATER/PR ECALCINER KILN	COAL	2214000 T/YR	NOX	N

MI-0287	HOLNAM, INC.	COAL, PETROLEI	CEMENT KILNS, COAL WET PROCESS (2)	100 T/H FEED	NOX	N
MI-0354	HOLNAM, INC	COAL, PETROLEI	CEMENT KILNS, COAL WET PROCESS, (2)	100 T/H	NOX	N
PA-0131	J.E. BAKER COMPANY		KILN #1, COAL/COKE DIRECT-FIRED FULLER	336 TPD PRODUCT	NOX	N
PA-0131	J.E. BAKER COMPANY		ROTARY KILN #2, COAL/COKE DIRECT-FIRED	540 TPD PRODUCT	NOX	N
PA-0151	CONSOLIDATE D PENNSYLVANI A COAL CO., BAILY MINES		KFS ROTARY THERMAL COAL DRYER NO. 1	27 MMTPY	NOX	N
PA-0151	CONSOLIDATE D PENNSYLVANI A COAL CO., BAILY MINES		THERMAL COAL DRYER NO. 2	27 MMTPY	NOX	A
TN-0097	LUTTRELL COMPANY	COAL, COKE, NO	VERTICAL SHAFT LIME KILN	370 T/D	NOX	P
UT-0059	ASH GROVE CEMENT COMPANY	COAL, TIRE DERI	KILN	170 T/H	NOX	P
UT-0062	HOLNAM, DEVIL'S SLIDE PLANT	COAL, NATURAL	KILN		NOX	P
VA-0210	W. S. FREY COMPANY, INC.		KILN, LIME	182500 T/YR	NOX	N
WI-0090	WESTERN LIME CORPORATION	LOW SULFUR BIT	LIME KILN #2, P38, S18	123.3 MMBTU/H	NOX	P

WY-0044	MOUNTAIN CEMENT COMPANY- LARAMIE FACILITY	KILN, COAL FIRED	COAL	45.3 T/H COAL	P
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CONTROL DESCRIPTION	EMISSIONS	BASIS	% EFF
PROPER DESIGN AND OPERATION OF LIME KILN	91.2 LB/H	BACT-PSD	
PRE-CALCINER ADDITION TO MODIFIED (SHORTENED) KILN LOWERS TEMPERATURE AND RESIDENCE TIME INSIDE KILN THEREBY REDUCING NOX FORMATION	3.4 LB/TON CLINKER	RACT	0
MULTI-STAGE COMBUSTION AND RECIRCULATION. EMISSION LIMIT IN LB/T OF CLINKER. LB/T LIMIT IS 12-MO ROLLING AVG. LOW NOX COMBUSTION SYSTEM	2.32 LB/T	BACT-PSD	85
SPECIAL PROCESS: DESIGN OF BURNER/KILN TO CONTROL ALKALI FROM LIMESTONE INCREASES NOX EMISSIONS.	2922.71 T/YR	NSPS	
PROCESS CONTROL AND SECONDARY COMBUSTION OF FUEL. LIMIT IS 30 DAY ROLLING AVERAGE. LIMIT IS LB/TON CLINKER.	900 LB/H	BACT-PSD	
GOOD COMBUSTION PRACTICES	2.8 LB/T	BACT-PSD	
A 5-STAGE PREHEATER/PRE CALCINER PYROPROCESSING PLANT IS SELECTED FOR NOX EMISSION ABATEMENT. ANY ADD-ON NOX EMISSIONS CONTROL HAS BEEN DETERMINED TO BE EITHER TECHNICALLY OR ENVI. INFEASIBLE	2546 T/YR	BACT-PSD	
	4871 T/YR	BACT-OTHER	

CURRENT EXISTING LIMIT DOES NOT REFLECT POTENTIAL 30% REMOVAL IN SLURRY- SCRUBBER. SOME GENERATION OF NO2 BY NATURAL GAS COMBUSTION IN RTOS.	6 LB/T	BACT-OTHER	30
	3377 T/YR	BACT-OTHER	
ANNUAL TESTING REQUIRED	34 LB/TON PRODUCT	RACT	0
ANNUAL TESTING REQUIRED	38 LB NOX/TON PRODUCT	RACT	0
	0.8 LB/MMBTU	LAER	0
LNB WITH SOFA, FGR	0.59 LB/MMBTU	LAER	0
INHERENT DESIGN OF THE VERTICAL SHAFT KILN LOW NOX BURNER. PRIMARY EMISSION LIMIT: 400 LB/H AT 90% OF MAX PRODUCTION CAPACITY. NOTE: TITLE V PERMIT DOES NOT INCLUDE AT 90% OF MAXIMUM PRODUCTION""	31.14 LB/H	BACT-PSD	
	400 LB/H	BACT-PSD	
LOW NOX BURNER	251 LB/H	NSPS	
	58.3 LB/H	NSPS	99
BACT FOR NITROGEN OXIDES HAS BEEN DETERMINED TO BE GOOD COMBUSTION PRACTICES WITH AN EMISSION LIMIT OF 60.0 POUNDS PER HOUR, AS MEASURED BY USEPA METHOD 7	60 LB/H	BACT-PSD	

COMBUSTION UNIT DESIGN (WELL DESIGNED PROCESS BURNER OPERATED IN DESIGN RANGE)	208.8 LB/H (30DAY ROLLING)	BACT-PSD	20
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